

Material Safety Data Sheet



Agilent Low Input QuickAmp WT Labeling Kit, Two-Color, Part Number 5190-2944

1. Product and company identification

Product name	: Agilent Low Input QuickAmp WT Labeling Kit, Two-Color, Part Number 5190-2944	
Material uses	: Analytical reagent.	
	T7 Primer	0.024 ml
	5X First Strand Buffer	0.1 ml
	0.1 M DTT	0.07 ml
	dNTP Mix	0.02 ml
	AffinityScript RNase Block Mix	0.036 ml
	5x Transcription Buffer	0.16 ml
	NTP Mix	0.035 ml
	T7 RNA Polymerase Blend	0.01 ml
	Nuclease-Free Water	0.25 ml
	Cyanine-3-CTP	0.008 ml
	Cyanine-5-CTP	0.008 ml
	WT Primer Mix	0.03 ml
Supplier/Manufacturer	: Agilent Technologies, Inc. 1834 State Highway 71 West Cedar Creek, TX 78612	
Part No. (Chemical Kit)	: 5190-2944	
Part No.	T7 Primer	5190-2320
	5X First Strand Buffer	5190-2321
	0.1 M DTT	5190-2322
	dNTP Mix	5190-2323
	AffinityScript RNase Block Mix	5190-2324
	5x Transcription Buffer	5190-2325
	NTP Mix	5190-2326
	T7 RNA Polymerase Blend	5190-2327
	Nuclease-Free Water	5190-2328
	Cyanine-3-CTP	5190-2329
	Cyanine-5-CTP	5190-2330
	WT Primer Mix	5190-2941
Validation date	: 10/21/2010	
In case of emergency	: 1-800-894-1304	

2. Hazards identification

Physical state	T7 Primer	Liquid.
	5X First Strand Buffer	Liquid.
	0.1 M DTT	Liquid.
	dNTP Mix	Liquid.
	AffinityScript RNase Block Mix	Liquid.
	5x Transcription Buffer	Liquid.
	NTP Mix	Liquid.
	T7 RNA Polymerase Blend	Liquid.
	Nuclease-Free Water	Liquid.
	Cyanine-3-CTP	Liquid.
	Cyanine-5-CTP	Liquid.
	WT Primer Mix	Liquid.

2. Hazards identification

	Cyanine-3-CTP	ARE FOLLOWED. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	Cyanine-5-CTP	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	WT Primer Mix	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Precautions	: T7 Primer	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	5X First Strand Buffer	Avoid breathing vapor or mist. Avoid contact with eyes. Wash thoroughly after handling.
	0.1 M DTT	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	dNTP Mix	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	AffinityScript RNase Block Mix	Avoid breathing vapor or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
	5x Transcription Buffer	Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
	NTP Mix	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	T7 RNA Polymerase Blend	Avoid breathing vapor or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
	Nuclease-Free Water	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	Cyanine-3-CTP	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	Cyanine-5-CTP	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.
	WT Primer Mix	No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

2. Hazards identification

Routes of entry	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Potential acute health effects		
Inhalation	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Slightly irritating to the respiratory system. Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards. Slightly irritating to the respiratory system. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Slightly irritating to the skin. Irritating to skin. No known significant effects or critical hazards. Slightly irritating to the skin. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

2. Hazards identification

Eyes	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. Slightly irritating to the eyes. No known significant effects or critical hazards. No known significant effects or critical hazards. Slightly irritating to the eyes. Irritating to eyes. No known significant effects or critical hazards. Slightly irritating to the eyes. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Potential chronic health effects</u>		
Chronic effects	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. Contains material that may cause target organ damage, based on animal data. No known significant effects or critical hazards. No known significant effects or critical hazards. Contains material that may cause target organ damage, based on animal data. Contains material that may cause target organ damage, based on animal data. No known significant effects or critical hazards. Contains material that may cause target organ damage, based on animal data. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.

2. Hazards identification

	T7 Primer	No known significant effects or critical hazards.
	5X First Strand Buffer	No known significant effects or critical hazards.
	0.1 M DTT	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	AffinityScript RNase Block Mix	No known significant effects or critical hazards.
	5x Transcription Buffer	No known significant effects or critical hazards.
	NTP Mix	No known significant effects or critical hazards.
	T7 RNA Polymerase Blend	No known significant effects or critical hazards.
	Nuclease-Free Water	No known significant effects or critical hazards.
	Cyanine-3-CTP	No known significant effects or critical hazards.
	Cyanine-5-CTP	No known significant effects or critical hazards.
	WT Primer Mix	No known significant effects or critical hazards.
Developmental effects	: T7 Primer	No known significant effects or critical hazards.
	5X First Strand Buffer	No known significant effects or critical hazards.
	0.1 M DTT	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	AffinityScript RNase Block Mix	No known significant effects or critical hazards.
	5x Transcription Buffer	No known significant effects or critical hazards.
	NTP Mix	No known significant effects or critical hazards.
	T7 RNA Polymerase Blend	No known significant effects or critical hazards.
	Nuclease-Free Water	No known significant effects or critical hazards.
	Cyanine-3-CTP	No known significant effects or critical hazards.
	Cyanine-5-CTP	No known significant effects or critical hazards.
	WT Primer Mix	No known significant effects or critical hazards.
Fertility effects	: T7 Primer	No known significant effects or critical hazards.
	5X First Strand Buffer	No known significant effects or critical hazards.
	0.1 M DTT	No known significant effects or critical hazards.
	dNTP Mix	No known significant effects or critical hazards.
	AffinityScript RNase Block Mix	No known significant effects or critical hazards.
	5x Transcription Buffer	No known significant effects or critical hazards.
	NTP Mix	No known significant effects or critical hazards.
	T7 RNA Polymerase Blend	No known significant effects or critical hazards.
	Nuclease-Free Water	No known significant effects or critical hazards.
	Cyanine-3-CTP	No known significant effects or critical hazards.
	Cyanine-5-CTP	No known significant effects or critical hazards.
	WT Primer Mix	No known significant effects or critical hazards.
Target organs	: T7 Primer	Not available.
	5X First Strand Buffer	Contains material which may cause damage to the following organs: gastrointestinal tract, eye, lens or cornea.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	5x Transcription Buffer	Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.

Over-exposure signs/symptoms

2. Hazards identification

Inhalation	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data. No specific data. No specific data.
Ingestion	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Skin	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness No specific data. Adverse symptoms may include the following: irritation redness No specific data. No specific data. No specific data. No specific data.
Eyes	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix	No specific data. Adverse symptoms may include the following: irritation watering redness No specific data. No specific data. Adverse symptoms may include the following: irritation watering redness

2. Hazards identification

Medical conditions aggravated by over-exposure

5x Transcription Buffer	Adverse symptoms may include the following: pain or irritation watering redness
NTP Mix T7 RNA Polymerase Blend	No specific data. Adverse symptoms may include the following: irritation watering redness
Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	No specific data. No specific data. No specific data. No specific data.
: T7 Primer 5X First Strand Buffer	None known. Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
0.1 M DTT dNTP Mix AffinityScript RNase Block Mix	None known. None known. Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
5x Transcription Buffer	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
NTP Mix T7 RNA Polymerase Blend	None known. Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	None known. None known. None known. None known.

See toxicological information (section 11)

3. Composition/information on ingredients

Name	CAS number	%
AffinityScript RNase Block Mix Glycerol	56-81-5	30 - 60
5x Transcription Buffer Polyethylene glycol 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	25322-68-3 1185-53-1	7 - 13 1 - 5
T7 RNA Polymerase Blend Glycerol	56-81-5	30 - 60

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact	: T7 Primer	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	5X First Strand Buffer	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
	0.1 M DTT	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	dNTP Mix	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	AffinityScript RNase Block Mix	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
	5x Transcription Buffer	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
	NTP Mix	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	T7 RNA Polymerase Blend	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
	Nuclease-Free Water	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	Cyanine-3-CTP	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	Cyanine-5-CTP	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
	WT Primer Mix	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

4. First aid measures

<p>Skin contact</p>	<p>: T7 Primer</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>5X First Strand Buffer</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</p>
	<p>0.1 M DTT</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>dNTP Mix</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>AffinityScript RNase Block Mix</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</p>
	<p>5x Transcription Buffer</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</p>
	<p>NTP Mix</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>T7 RNA Polymerase Blend</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</p>
	<p>Nuclease-Free Water</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>Cyanine-3-CTP</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.</p>
	<p>Cyanine-5-CTP</p>	<p>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly</p>

4. First aid measures

	WT Primer Mix	before reuse. Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.
Inhalation	: T7 Primer	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	5X First Strand Buffer	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	0.1 M DTT	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	dNTP Mix	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	AffinityScript RNase Block Mix	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	5x Transcription Buffer	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	NTP Mix	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
	T7 RNA Polymerase Blend	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
	Nuclease-Free Water	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a

4. First aid measures

Cyanine-3-CTP	collar, tie, belt or waistband. Get medical attention if symptoms occur. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
Cyanine-5-CTP	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.
WT Primer Mix	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: T7 Primer	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
5X First Strand Buffer	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
0.1 M DTT	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
dNTP Mix	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
AffinityScript RNase Block Mix	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
5x Transcription Buffer	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
NTP Mix	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
T7 RNA Polymerase Blend	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention

4. First aid measures

Nuclease-Free Water	immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Cyanine-3-CTP	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
Cyanine-5-CTP	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
WT Primer Mix	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Protection of first-aiders	:	T7 Primer	No action shall be taken involving any personal risk or without suitable training.
		5X First Strand Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		0.1 M DTT	No action shall be taken involving any personal risk or without suitable training.
		dNTP Mix	No action shall be taken involving any personal risk or without suitable training.
		AffinityScript RNase Block Mix	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		5x Transcription Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		NTP Mix	No action shall be taken involving any personal risk or without suitable training.
		T7 RNA Polymerase Blend	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
		Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training.
		Cyanine-3-CTP	No action shall be taken involving any personal risk or without suitable training.
		Cyanine-5-CTP	No action shall be taken involving any personal risk or without suitable training.
		WT Primer Mix	No action shall be taken involving any personal risk or without suitable training.

4. First aid measures

Notes to physician	: T7 Primer	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	5X First Strand Buffer	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	0.1 M DTT	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	dNTP Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	AffinityScript RNase Block Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	5x Transcription Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	NTP Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	T7 RNA Polymerase Blend	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Nuclease-Free Water	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Cyanine-3-CTP	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Cyanine-5-CTP	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	WT Primer Mix	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	: T7 Primer	In a fire or if heated, a pressure increase will occur and the container may burst.
	5X First Strand Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	0.1 M DTT	In a fire or if heated, a pressure increase will occur and the container may burst.
	dNTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	AffinityScript RNase Block Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	5x Transcription Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	NTP Mix	In a fire or if heated, a pressure increase will occur and the container may burst.
	T7 RNA Polymerase Blend	In a fire or if heated, a pressure increase will occur and the container may burst.
	Nuclease-Free Water	In a fire or if heated, a pressure increase will occur and the container may burst.
	Cyanine-3-CTP	In a fire or if heated, a pressure increase will occur and the container may burst.
		In a fire or if heated, a pressure increase will occur

5. Fire-fighting measures

Cyanine-5-CTP

and the container may burst.

WT Primer Mix

In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media

Suitable

: T7 Primer

Use an extinguishing agent suitable for the surrounding fire.

5X First Strand Buffer

Use an extinguishing agent suitable for the surrounding fire.

0.1 M DTT

Use an extinguishing agent suitable for the surrounding fire.

dNTP Mix

Use an extinguishing agent suitable for the surrounding fire.

AffinityScript RNase Block Mix

Use an extinguishing agent suitable for the surrounding fire.

5x Transcription Buffer

Use an extinguishing agent suitable for the surrounding fire.

NTP Mix

Use an extinguishing agent suitable for the surrounding fire.

T7 RNA Polymerase Blend

Use an extinguishing agent suitable for the surrounding fire.

Nuclease-Free Water

Use an extinguishing agent suitable for the surrounding fire.

Cyanine-3-CTP

Use an extinguishing agent suitable for the surrounding fire.

Cyanine-5-CTP

Use an extinguishing agent suitable for the surrounding fire.

WT Primer Mix

Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: T7 Primer

None known.

5X First Strand Buffer

None known.

0.1 M DTT

None known.

dNTP Mix

None known.

AffinityScript RNase Block Mix

None known.

5x Transcription Buffer

None known.

NTP Mix

None known.

T7 RNA Polymerase Blend

None known.

Nuclease-Free Water

None known.

Cyanine-3-CTP

None known.

Cyanine-5-CTP

None known.

WT Primer Mix

None known.

Special exposure hazards

: T7 Primer

No action shall be taken involving any personal risk or without suitable training.

5X First Strand Buffer

No action shall be taken involving any personal risk or without suitable training.

0.1 M DTT

No action shall be taken involving any personal risk or without suitable training.

dNTP Mix

No action shall be taken involving any personal risk or without suitable training.

AffinityScript RNase Block Mix

No action shall be taken involving any personal risk or without suitable training.

5x Transcription Buffer

No action shall be taken involving any personal risk or without suitable training.

NTP Mix

No action shall be taken involving any personal risk or without suitable training.

T7 RNA Polymerase Blend

No action shall be taken involving any personal risk or without suitable training.

Nuclease-Free Water

No action shall be taken involving any personal risk

5. Fire-fighting measures

	Cyanine-3-CTP	or without suitable training. No action shall be taken involving any personal risk or without suitable training.
	Cyanine-5-CTP	No action shall be taken involving any personal risk or without suitable training.
	WT Primer Mix	No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	: T7 Primer	No specific data.
	5X First Strand Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides
	0.1 M DTT	No specific data.
	dNTP Mix	No specific data.
	AffinityScript RNase Block Mix	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	5x Transcription Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
	NTP Mix	No specific data.
	T7 RNA Polymerase Blend	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Nuclease-Free Water	No specific data.
	Cyanine-3-CTP	No specific data.
	Cyanine-5-CTP	No specific data.
	WT Primer Mix	No specific data.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6. Accidental release measures

Personal precautions	: T7 Primer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
	5X First Strand Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
	0.1 M DTT	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate

6. Accidental release measures

dNTP Mix	personal protective equipment (see Section 8). No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
AffinityScript RNase Block Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
5x Transcription Buffer	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
NTP Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
T7 RNA Polymerase Blend	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Nuclease-Free Water	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
Cyanine-3-CTP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
Cyanine-5-CTP	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
WT Primer Mix	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding

6. Accidental release measures

Environmental precautions : T7 Primer

areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).

5X First Strand Buffer

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

0.1 M DTT

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

dNTP Mix

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

AffinityScript RNase Block Mix

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

5x Transcription Buffer

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

NTP Mix

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

T7 RNA Polymerase Blend

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Nuclease-Free Water

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Cyanine-3-CTP

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Cyanine-5-CTP

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

WT Primer Mix

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6. Accidental release measures

Methods for cleaning up : T7 Primer

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

5X First Strand Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

0.1 M DTT

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

dNTP Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

AffinityScript RNase Block Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

5x Transcription Buffer

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

NTP Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

T7 RNA Polymerase Blend

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Nuclease-Free Water

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Cyanine-3-CTP

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-

6. Accidental release measures

Cyanine-5-CTP

soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

WT Primer Mix

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

: T7 Primer

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

5X First Strand Buffer

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

0.1 M DTT

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

dNTP Mix

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

AffinityScript RNase Block Mix

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

7. Handling and storage

	<p>protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
5x Transcription Buffer	<p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
NTP Mix	<p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p>
T7 RNA Polymerase Blend	<p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</p>
Nuclease-Free Water	<p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.</p>
Cyanine-3-CTP	<p>Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should</p>

7. Handling and storage

Cyanine-5-CTP

wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

WT Primer Mix

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: T7 Primer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

5X First Strand Buffer

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

0.1 M DTT

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

dNTP Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

AffinityScript RNase Block Mix

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

7. Handling and storage

	<p>incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
5x Transcription Buffer	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
NTP Mix	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
T7 RNA Polymerase Blend	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
Nuclease-Free Water	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
Cyanine-3-CTP	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
Cyanine-5-CTP	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a</p>

7. Handling and storage

WT Primer Mix

dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

<u>Occupational exposure limits</u>		<u>TWA (8 hours)</u>			<u>STEL (15 mins)</u>			<u>Ceiling</u>			<u>Notations</u>
<u>Ingredient</u>	<u>List name</u>	<u>ppm</u>	<u>mg/m³</u>	<u>Other</u>	<u>ppm</u>	<u>mg/m³</u>	<u>Other</u>	<u>ppm</u>	<u>mg/m³</u>	<u>Other</u>	
AffinityScript RNase Block Mix Glycerol	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3] [b]
	BC 10/2009	-	10	-	-	-	-	-	-	-	[b]
		-	3	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	10	-	-	-	-	-	-	-	[a]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[d]
5x Transcription Buffer Polyethylene glycol	US AIHA 1/2009	-	10	-	-	-	-	-	-	-	[a]
T7 RNA Polymerase Blend Glycerol	US ACGIH 2/2010	-	10	-	-	-	-	-	-	-	[a]
	AB 4/2009	-	10	-	-	-	-	-	-	-	[3] [b]
	BC 10/2009	-	10	-	-	-	-	-	-	-	[b]
		-	3	-	-	-	-	-	-	-	[c]
	ON 7/2010	-	10	-	-	-	-	-	-	-	[a]
	QC 6/2008	-	10	-	-	-	-	-	-	-	[d]

[3]Skin sensitization

Form: [a]Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. [b]Mist [c]Respirable mist [d]mist [e]Aerosol

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

9. Physical and chemical properties

Flammable limits	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
WT Primer Mix	Not available.	
Color	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Colorless.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
WT Primer Mix	Not available.	
Odor	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Odorless.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
WT Primer Mix	Not available.	
pH	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	7.6
	Cyanine-5-CTP	7.6
WT Primer Mix	7.5 to 8	
Boiling/condensation point	: T7 Primer	100°C (212°F)
	5X First Strand Buffer	Not available.
	0.1 M DTT	100°C (212°F)
	dNTP Mix	100°C (212°F)
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	100°C (212°F)
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	100°C (212°F)
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.

9. Physical and chemical properties

	WT Primer Mix	100°C (212°F)
Melting/freezing point	: T7 Primer	0°C (32°F)
	5X First Strand Buffer	Not available.
	0.1 M DTT	0°C (32°F)
	dNTP Mix	0°C (32°F)
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	0°C (32°F)
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	0°C (32°F)
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	0°C (32°F)
Specific gravity	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Vapor pressure	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Vapor density	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Odor threshold	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.

9. Physical and chemical properties

	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Evaporation rate	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Viscosity	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.
Solubility	: T7 Primer	Easily soluble in the following materials: cold water and hot water.
	5X First Strand Buffer	Easily soluble in the following materials: cold water and hot water.
	0.1 M DTT	Easily soluble in the following materials: cold water and hot water.
	dNTP Mix	Easily soluble in the following materials: cold water and hot water.
	AffinityScript RNase Block Mix	Easily soluble in the following materials: cold water and hot water.
	5x Transcription Buffer	Easily soluble in the following materials: cold water and hot water.
	NTP Mix	Easily soluble in the following materials: cold water and hot water.
	T7 RNA Polymerase Blend	Easily soluble in the following materials: cold water and hot water.
	Nuclease-Free Water	Easily soluble in the following materials: cold water and hot water.
	Cyanine-3-CTP	Easily soluble in the following materials: cold water and hot water.
	Cyanine-5-CTP	Easily soluble in the following materials: cold water and hot water.
	WT Primer Mix	Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability	: T7 Primer	The product is stable.
	5X First Strand Buffer	The product is stable.
	0.1 M DTT	The product is stable.
	dNTP Mix	The product is stable.
	AffinityScript RNase Block Mix	The product is stable.
	5x Transcription Buffer	The product is stable.
	NTP Mix	The product is stable.
	T7 RNA Polymerase Blend	The product is stable.
	Nuclease-Free Water	The product is stable.
	Cyanine-3-CTP	The product is stable.
Cyanine-5-CTP	The product is stable.	
WT Primer Mix	The product is stable.	
Conditions to avoid	: T7 Primer	No specific data.
	5X First Strand Buffer	No specific data.
	0.1 M DTT	No specific data.
	dNTP Mix	No specific data.
	AffinityScript RNase Block Mix	No specific data.
	5x Transcription Buffer	No specific data.
	NTP Mix	No specific data.
	T7 RNA Polymerase Blend	No specific data.
	Nuclease-Free Water	No specific data.
	Cyanine-3-CTP	No specific data.
Cyanine-5-CTP	No specific data.	
WT Primer Mix	No specific data.	
Materials to avoid	: T7 Primer	No specific data.
	5X First Strand Buffer	No specific data.
	0.1 M DTT	No specific data.
	dNTP Mix	No specific data.
	AffinityScript RNase Block Mix	No specific data.
	5x Transcription Buffer	No specific data.
	NTP Mix	No specific data.
	T7 RNA Polymerase Blend	No specific data.
	Nuclease-Free Water	No specific data.
	Cyanine-3-CTP	No specific data.
Cyanine-5-CTP	No specific data.	
WT Primer Mix	No specific data.	
Hazardous decomposition products	: T7 Primer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5X First Strand Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	0.1 M DTT	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	dNTP Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	AffinityScript RNase Block Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	5x Transcription Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	NTP Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
T7 RNA Polymerase Blend	Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

10. Stability and reactivity

	Nuclease-Free Water	produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Cyanine-3-CTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Cyanine-5-CTP	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	WT Primer Mix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: T7 Primer	Under normal conditions of storage and use, hazardous reactions will not occur.
	5X First Strand Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	0.1 M DTT	Under normal conditions of storage and use, hazardous reactions will not occur.
	dNTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	AffinityScript RNase Block Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	5x Transcription Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	NTP Mix	Under normal conditions of storage and use, hazardous reactions will not occur.
	T7 RNA Polymerase Blend	Under normal conditions of storage and use, hazardous reactions will not occur.
	Nuclease-Free Water	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-3-CTP	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cyanine-5-CTP	Under normal conditions of storage and use, hazardous reactions will not occur.
		WT Primer Mix

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
AffinityScript RNase Block Mix Glycerol	LD50 Oral	Rat	12600 mg/kg	-
T7 RNA Polymerase Blend Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AffinityScript RNase Block Mix Glycerol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
5x Transcription Buffer Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-

11. Toxicological information

T7 RNA Polymerase Blend Glycerol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	- -	- -
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Sensitizer

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Other adverse symptoms	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.

12. Ecological information

Ecotoxicity : May cause long-term adverse effects in the aquatic environment.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
AffinityScript RNase Block Mix Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours
5x Transcription Buffer Polyethylene glycol	Acute LC50 >1000000 ug/L Fresh water	Fish - Salmo salar - Parr - 8.2 to 11.7 cm - 5.1 to 14.1 g	96 hours
T7 RNA Polymerase Blend Glycerol	Acute LC50 54 to 57 ml/L Fresh water	Fish - Oncorhynchus mykiss - 0.9 g	96 hours

Partition coefficient: n-octanol/water	: T7 Primer	Not available.
	5X First Strand Buffer	Not available.
	0.1 M DTT	Not available.
	dNTP Mix	Not available.
	AffinityScript RNase Block Mix	Not available.
	5x Transcription Buffer	Not available.
	NTP Mix	Not available.
	T7 RNA Polymerase Blend	Not available.
	Nuclease-Free Water	Not available.
	Cyanine-3-CTP	Not available.
	Cyanine-5-CTP	Not available.
	WT Primer Mix	Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information

TDG / IMDG / IATA : Not regulated.

15. Regulatory information

WHMIS (Canada)	: T7 Primer 5X First Strand Buffer 0.1 M DTT dNTP Mix AffinityScript RNase Block Mix 5x Transcription Buffer	Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Class D-2B: Material causing other toxic effects (Toxic).
	NTP Mix T7 RNA Polymerase Blend Nuclease-Free Water Cyanine-3-CTP Cyanine-5-CTP WT Primer Mix	Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada). Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

Label requirements	: T7 Primer	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
	5X First Strand Buffer	MAY CAUSE EYE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
	0.1 M DTT	NOT EXPECTED TO PRODUCE SIGNIFICANT

16. Other information

dNTP Mix	ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
AffinityScript RNase Block Mix	MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
5x Transcription Buffer	CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
NTP Mix	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
T7 RNA Polymerase Blend	MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Nuclease-Free Water	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Cyanine-3-CTP	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
Cyanine-5-CTP	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
WT Primer Mix	NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

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Indicates information that has changed from previously issued version.

Notice to reader

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